46. The method of claim **27**, further comprising the steps of

executing a system build process producing derived objects from versions of source objects selected by the version selection rules;

recording an audit record of which versions of the source objects are accessed during the executing system build process,

associating the audit record with the produced derived objects; and

comparing the audit record, associated with a derived object produced by a previous system build process and stored in the storage device, with the requirements of the currently executing system build process to determine if the previously produced derived object can be reused to satisfy the currently executing system build process.

47. The method of claim **46**, wherein the comparing step comprises

comparing the source object versions used in producing the previous derived object with the source object versions to be used in producing the corresponding derived object by the currently executing system build process, and

reusing the previous derived object by the executing build process if all the compared source object versions match.

48. The method of claim **46**, further comprising the steps of

storing objects accessible by a plurality of processes in a public storage;

storing objects accessible by only a particular process in a private storage associated with the particular executing process;

storing derived objects produced by the particular process in the associated private storage; and

moving the derived object stored in the private storage to the public storage for sharing among the plurality of processes, other than the process which created the derived object, requiring the derived object.

49. The method of claim **48**, further comprising the step of sharing the derived object stored in the public storage among a plurality of system build processes.

50. The method of claim **48**, further comprising the step of storing the derived object in the storage device as a versioned object.

51. The method of claim **50**, further comprising the step of storing the audit record associated with the derived object in the storage device as a configuration record for the stored derived object.

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